



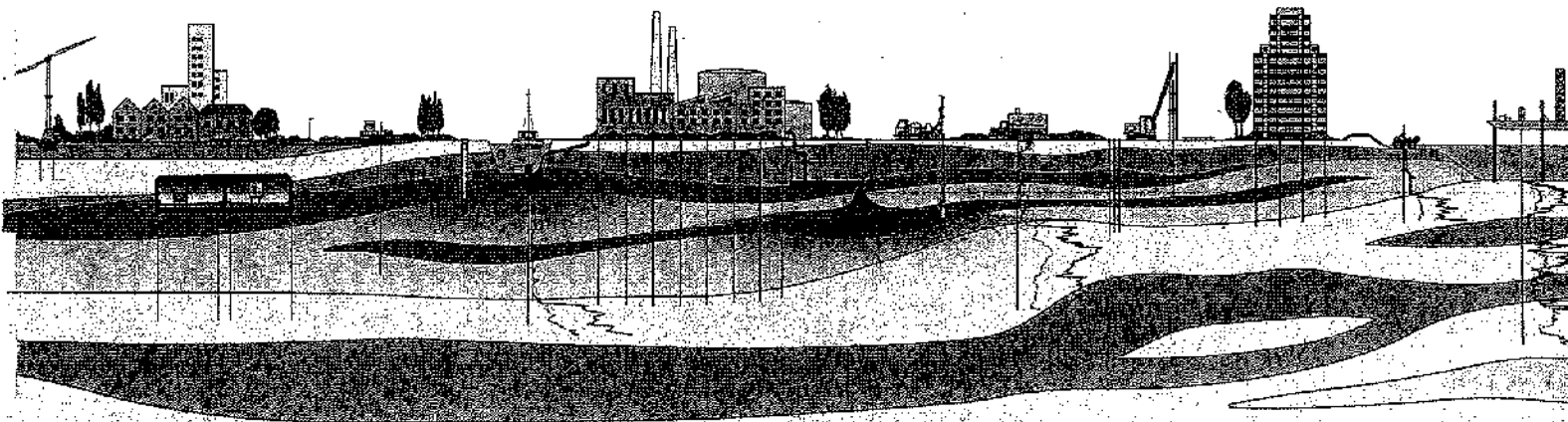
FUGRO-McCLELLAND (WEST), INC.

PHASE II SITE ASSESSMENT/ REMEDIATION REPORT

**FORMER MAINTENANCE YARD
4750 WHEATLAND AVENUE
LOS ANGELES, CALIFORNIA**

Prepared for:
BURBANK GLENDALE PASADENA AIRPORT AUTHORITY

August 1993



BGPAA 0001



FUGRO-McCLELLAND (WEST), INC.

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August 25, 1993
Project No. 92-41-3394

Burbank Glendale Pasadena Airport Authority
2627 Hollywood Way
Terminal A, Second Floor
Burbank, California 91505

Attention: Mr. Dan Feger

Phase II Site Assessment/Remediation Report
Former Maintenance Yard
4750 Wheatland Avenue
Los Angeles, California

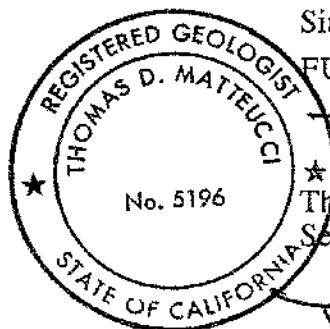
Dear Mr. Feger:

This report presents the results of our site assessment and remediation conducted at the above-referenced facility. The sampling program was conducted for the Burbank Glendale Pasadena Airport Authority in general accordance with our proposals dated February 12, 1993, and June 14, 1993, and the terms and conditions of the Basic Agreement for Environmental Engineering Services.

We appreciate the opportunity to have worked with you on this interesting assignment. Please call the undersigned if you have any questions or comments.

Sincerely,

FUGRO-McCLELLAND (WEST), INC.



Tom D. Matteucci

Thomas D. Matteucci, R.G.
Senior Geologist

Thomas W. McNeilan
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Principal Engineer



TDM/TWM:dg

copies submitted: (3)

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INTRODUCTION

This report documents the methodology, conclusions, and recommendations of an assessment and remediation program at the former maintenance yard located at 4750 Wheatland Avenue in Los Angeles, California. The work was conducted for the Burbank Glendale Pasadena Airport Authority (Authority) as authorized in our proposals dated February 12, 1993, and June 14, 1993. Preliminary results of the site assessment program were summarized in our report dated June 14, 1993 (*Preliminary Phase II Site Assessment Report, Former Maintenance Yard, 4750 Wheatland Avenue, Los Angeles, California*). Based on the results and recommendations contained within the preliminary assessment, final site remediation has been implemented.

Included with this report are the following appendices: Appendix A - Logs of Drill Holes and Cone Penetrometer Tests, Appendix B - Laboratory Analytical Reports, and Appendix C - Waste Manifests.

Purpose and Scope

The purpose of our assessment and remediation was to evaluate the possible presence of subsurface site contamination within the footprint of the proposed new construction, and remediate discovered contamination to acceptable levels. The scope of work was developed through conversations with the Authority and included the following:

- Preparation and implementation of a site-specific health and safety plan.
- Review of prior environmental documentation regarding the site provided by the Authority.
- Completion of a subsurface assessment using hollow-stem auger and cone penetrometer testing (CPT) techniques to develop stratigraphy, collect soil samples for laboratory analysis, and to collect shallow soil-gas samples for onsite screening for the presence of volatile organic vapors.
- Collection of soil samples from the sides of the former service bay excavation, soil stockpiled from that excavation, and discolored surface soil.
- Excavation and transport of lead- and hydrocarbon-contaminated soil to the Gibson Oil and Refining Co. Inc., facility in Bakersfield, California.
- Preparation of this report documenting the methods, findings, and conclusions of the Phase II site assessment and remediation.

Site History and Description

The former maintenance yard is located west of and adjacent to the active airport aprons/taxiway at 4750 Wheatland Avenue, south of Saticoy Street (Plate 1 - Vicinity Map). We understand that the facility has been abandoned for about 2 years and has been used periodically as a contractor laydown yard and staging area during the interim. We were informed by you that several underground storage tanks were previously removed from the northwest quadrant of the site, but that no indications of gross subsurface contamination were observed during the tank removals.

Two buildings, located in the western third of the site, were demolished in May 1993 and the construction materials removed from the site (Plate 2 - Site Plan). A single-story, 40- by 30-foot wood-frame office building, Building 505, was located in the northwest corner of the site. A 40- by 100-foot metal maintenance building, Building 502, was present in the southwest corner of the site. A vehicle service bay was located below the concrete floor near the eastern end of the building. A plywood lean-to addition (approximately 15- by 20-foot), located on the east side of the maintenance building, was reportedly used as a paint bay or disposal area.

Except for the buildings and a concrete slab to the east of the maintenance building, the site appeared to have an unpaved gravel surface. When site work for the Phase II assessment was conducted on May 20 and May 27, 1993, the site surface was observed to be comprised mostly of disturbed sandy soil. The central portion of the site was comprised of undisturbed soil with a dark, discolored area measuring approximately 50 feet by 50 feet (see Plate 2). This area appeared to be a low area of the site, possibly where surface drainage collected. During site work by Fugro-McClelland in August 1993, remnants of 1- to 2-inch asphalt pavement were observed in the eastern third of the site, near the gate to the apron/taxiway.

Three unidentified holes measuring a few feet in diameter and about 10 feet deep (locations are shown on Plate 2), also were observed. The hole located near drill hole No. 7 (DH-7) was lined with cinder block. These holes may be related to septic systems, although no odor or moisture was apparent. A historic drainage swale, reportedly located along the eastern site perimeter (draining from the north), had been filled.

Previous Subsurface Investigation

An environmental document provided by the Authority entitled *Soil Gas Survey* by Target Environmental Services, Inc., (November 1991) contains previously acquired site-specific information and was reviewed by Fugro-McClelland for this assessment. The Target Environmental sampling included subsurface soil-gas sampling at 23 locations in the maintenance yard (Plate 2). Six of these locations included soil-gas sampling at about 5-foot depth intervals down to 20 feet, while the remainder of locations included soil-gas sampling at 6-foot depths

only. The Target Environmental report documents analyses for petroleum and halogenated hydrocarbons for each soil-gas sample.

Target Environmental reported tetrachloroethene levels ranging from 0.06 to 3.0 micrograms per liter ($\mu\text{g/l}$), and 1,1,1-trichloroethane (1,1,1-TCA) at levels ranging from 0.15 to 1.3 $\mu\text{g/l}$ at depths between 6 and 20 feet below ground surface (bgs) at the site. The higher values were located beneath and near Building 502. The report states that the concentrations of volatile hydrocarbons beneath and near Building 502 indicated potential contamination in the soil, but that other concentrations in other areas were insignificant.

Regional Conditions

The Burbank Glendale Pasadena Airport is located on the piedmont slope to the southwest of the adjacent Verdugo Mountains. Hence, the airport and its vicinity are underlain by thick deposits of sediments that have been eroded from the adjacent mountains and redeposited to form the piedmont. The ground surface in the area slopes to the south. At the project site, the surface elevation is about 757 feet above mean sea level (MSL).

The composition of the nearby mountains, as well as prior subsurface sampling at the airport, suggests that the underlying sediments are composed primarily of coarse-grained sand and gravel. Cobbles and boulders may be present either in a sand and gravel matrix or as layers. Silt and clay layers are known to be locally present within the sediment sequence. Prior data suggest that the lateral continuity of the fine-grained sediments is limited.

The project area is within the San Fernando Ground Water Basin. Based on ground water levels recorded as part of the ongoing North Hollywood National Priorities List studies, the ground water surface was at about elevation 500 feet above MSL in April 1991 (i.e., about 260 feet bgs).

SITE ASSESSMENT SAMPLING AND TESTING METHODOLOGY

Drill Holes

Ten shallow drill holes were advanced at the site on May 20, 1993. The drill hole locations are shown on Plate 2. The drill holes were advanced with a truck-mounted, hollow-stem-auger drill rig (operated by Valley Well Drilling of Ventura, California) under the technical direction of a Fugro-McClelland field geologist. A California Registered Geologist was onsite to observe the sampling techniques. The first five drill holes were advanced to depths between 10 and 20 feet in the area of the former service bay in Building 502. Drill holes DH-6 and

DH-7 were advanced to 10-foot depths near the unidentified holes in the northwestern corner of the site. Drill holes DH-8, DH-9, and DH-10 were each advanced to 8 feet in depth in the central area of the site where the surficial soils were stained.

The soil lithology was logged by observing discrete soil samples and cuttings generated during drilling. Soil samples were collected generally in the first foot of depth and at 3- or 5-foot intervals to the full depth of the drill holes. Soil samples were obtained by driving a modified California split-spoon sampler with a 140-pound hammer dropped 30 inches. The number of blow counts per one-half-foot required to drive the sampler were recorded during logging of the holes.

The samples were recovered in stainless-steel 2.5-inch-diameter, 3-inch-long sampler sleeves, sealed with Teflon sheets and plastic end caps, labeled, and stored in a cooler with artificial ice. The samples were transported to a state-certified laboratory for analysis. The laboratory employed was National Environmental Testing, Inc., of Burbank, California. Two duplicate samples were submitted for laboratory analysis for quality assurance purposes. Prior to each sampling attempt, the sampler and sample liners were decontaminated by washing with a nonphosphate detergent and doubly rinsed with deionized water.

Of the remaining sleeves in the sampler, one was capped and stored on artificial ice for subsequent screening with a photoionization detector (PID) in the Fugro-McClelland office. The screening was not performed in the field because of a malfunction of the PID instrument. PID readings were tabulated and included in the drill hole logs. The remaining samples in each sampler were visually classified and observed for signs of contamination.

Excavated soils were placed in a labeled 55-gallon drum of the type approved by the U.S. Department of Transportation. The drum was stored onsite pending laboratory analysis of the soil samples. Sloughing of soil occurred in the drill holes, filling about the lower third of the holes. The upper portion of the holes were backfilled with hydrated bentonite chips. After laboratory results indicated no detectable contamination in the drummed soil, it was emptied onsite and the drum removed.

Soil Samples Collected by Hand

Several soil samples were collected on May 20, 1993, in 2.5-inch-diameter, 3-inch-long, decontaminated, stainless-steel sleeves and handled in the same manner as those collected during the drilling operation. The soil stockpile from the service bay excavation was sampled in this manner, as were the east and west sides of the excavation at a depth of about 3 feet. A sample of the stained surficial soil in the central portion of the site was also collected.

Cone Penetrometer Testing

On May 27, 1993, seven test holes (CPT-1 through CPT-7) were advanced for standard CPT soundings to develop shallow stratigraphy beneath the site, and to collect limited additional samples for environmental profiling. The locations of these test holes are shown on Plate 2.

The first test hole was advanced to a depth of approximately 48 feet before the probe tip met with refusal. CPT-1 was completed in the central portion of the west end of the site. CPT-2 and CPT-3, sounded to 10 feet in depth, were located in the eastern portion of the site. CPT-4 and CPT-5 were sounded in the northwestern portion of the site within 10 feet of each other. CPT-4 was advanced to, and met refusal at, 27 feet. In an attempt to complete a deeper sounding, CPT-5 was advanced. However, refusal was met at about 22 feet in CPT-5. CPT-6 and CPT-7 were advanced in the southwestern corner of the site (to about 38 feet) and near the southern unidentified hole (to about 20 feet), respectively.

After the CPT test holes, soil samples were collected using the CPT rig at locations immediately adjacent to CPT holes CPT-1, CPT-6, and CPT-7. The samples were collected within the first foot of the surface and at depths of 3 and 8 feet in all three holes, and at depths of 11 and 16 feet in CPT-7. Soils were screened onsite for volatile organics using a Photovac Microtip II PID. PID readings were tabulated and included in the logs.

The geologist logged CPT-1, CPT-6, and CPT-7 from observation of the soil samples collected in those holes. The CPT soundings generated separate logs of the lithology based on the ratio of tip resistance to sleeve friction measured throughout the testing. All CPT-generated holes were backfilled with bentonite grout.

Soil-gas samples from depths of 12 and 15 feet in CPT-7 were collected using the CPT soil-gas sampling probe. Soil-gas samples were pumped from discrete depths through Teflon tubing into Tedlar sample bags and field-screened with the PID for volatile hydrocarbons.

Laboratory Analysis

The laboratory analysis was conducted in accordance with the Regional Water Quality Control Board's Well Investigation Program guidelines. Selected soil samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) using EPA method 418.1; volatile and semivolatile hydrocarbons using EPA methods 8240 and 8270, respectively; fuel fingerprint, and benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) by EPA methods 8015, modified, and 8020, respectively; and CAM metals by method 6010 (except for arsenic by method 7060, lead by method 7421, mercury by method 7471, and selenium by method 7740). Methods 8015 and 8020 are used for identifying carbon chains roughly C-4 to C-30 (gasoline, jet fuels, diesel, motor oil, and crude oil), quantified against a diesel standard.

SITE ASSESSMENT RESULTS

Subsurface Conditions

Appendix A contains the data collected in the field regarding each drill hole. A key to terms and symbols used in the logs is also provided. The CPT sounding data is presented in log form also, at the end of Appendix A.

The earth materials encountered were primarily yellowish brown, poorly graded, loose and dense sand with gravel. Subrounded cobbles, less than a few inches in any dimension, were common. Some silty sand layers also were encountered. These observations were corroborated by the CPT data. Ground water was not encountered in any of the drill holes.

No volatile hydrocarbons were detected in the soil samples screened using the PID. None of the samples from the subsurface appeared discolored or odorous. The soil-gas samples did not contain volatile hydrocarbons detectable to the PID.

Laboratory Analytical Results

The results of the laboratory analyses are shown in Table 1 - Soil Sample Analytical Results - Hydrocarbon Compounds, and Table 2 - Soil Sample Analytical Results - Metals. The reports submitted by the laboratory and the chain-of-custody documentation accompanying the samples to the laboratory are included in Appendix C.

No volatile or semivolatile organics were detected in any of the samples analyzed for these constituents. Additionally, no BTEX constituents were detected.

In analyzing for fuel fingerprint, the laboratory detected some hydrocarbons identified as motor oil (although quantified as diesel). Motor oil at a concentration of 61 parts per million (ppm) was detected in the sample from 0.5 feet in DH-10 (located in the stained surficial soil area of the site). That sample also contained TRPH at a concentration of 110 ppm. Motor oil also was detected, but at much lower concentrations (0.9 to 9.0 ppm), in both samples collected from the soil stockpiled ("spoil pile") from the service bay excavation. No TRPH were detected in those samples. Sample CPT-1 at 8 feet contained a TRPH concentration of 76 ppm and a motor oil concentration of 24 ppm. No other samples contained TRPH or fuel levels greater than 5 ppm.

A composite soil sample collected from the stained surficial soil area also was tested for CAM metals (see Table 2). With the exception of lead, none of the metals were detected in excess of 10 times the soluble threshold limit concentration of 5 milligrams per liter (mg/l).

Lead was detected in that sample at a concentration of 300 milligrams per kilogram (mg/kg). A waste extraction test (WET) was performed on that sample with a resulting concentration of 16 mg/l. To evaluate the extent of lead contamination in the surrounding area, the samples collected from borings DH-8, 9, and 10 at depths of 0.5 feet and 3.0 feet were additionally tested for soluble lead. All of those additional samples were reported to have soluble lead concentrations well below the established hazardous waste limit.

SITE ASSESSMENT CONCLUSIONS AND RECOMMENDATIONS

Based on the observations and analyses reported herein, limited areas of soil contamination in the form of motor oil or diesel and/or lead were found to exist at the site. Contamination, where present, was found to be localized to the near surface. Although there are no clearly established cleanup levels for petroleum hydrocarbons in soil, a general cleanup level of 100 mg/kg is considered to be fairly conservative, in the absence of other contaminants, especially if there is considerable separation between the contamination and the underlying ground water. Because ground water is known to be greater than 200 feet bgs, a 100 mg/kg hydrocarbon cleanup level is considered by Fugro-McClelland to be conservative for this site.

Low levels of hydrocarbon contamination were detected in the excavated stockpiled soil near Building 502 (less than 10 mg/kg). Because of these low levels and the absence of other contaminants (volatile and semivolatile organics), it is our opinion that this material is suitable for use as backfill at the site. In our draft report of June 14, 1993 (*Preliminary Phase II Site Assessment Report, Former Maintenance Yard, 4750 Wheatland Avenue*), we recommended that the stockpiled soil be used for backfilling the former service bay excavation.

Low levels of hydrocarbon contamination were detected at 8 feet in depth in CPT-1 (76 mg/kg as TRPH). That test location was in an area with no expected contaminant source. Those levels were not considered by Fugro-McClelland to be sufficiently high to warrant remediation or further investigation in this area.

The subsurface soil samples collected near the two unidentified holes in the northwestern portion of the site did not contain evidence of contamination. Very low levels (about 5 mg/kg) of motor oil were detected near the southern unidentified hole near the former plywood addition. No paint-related contamination was detected near the former paint booth/plywood addition east of Building 502.

The area of stained surface soil in the central portion of the site was found to be contaminated with lead and slightly contaminated with motor oil. That area of the site is apparently a low spot where surface drainage would pool. Lead was found to be present in a

composite surface sample at hazardous concentrations. The lead-contaminated soil was found to be localized to the discolored soil at the surface and did not migrate vertically. Six additional samples collected in that area at depths ranging from 0.5 to 3 feet had low or nondetectable concentrations of lead. One of the three samples collected at 0.5 feet had a hydrocarbon concentration (TRPH) in excess of 100 ppm. In our draft report dated June 14, 1993, we recommended that the stained surface soil in the central portion of the facility be excavated and hauled to an approved treatment/disposal facility. Following is a summary of the remediation that was performed in this regard.

SITE REMEDIATION

Prior to site remediation, copies of laboratory analytical data were forwarded to Gibson Oil & Refining Co., Inc. of Bakersfield, California. The soil was pre-approved for acceptance to be recycled using a transportable treatment unit, which operates under permit by rule granted by the Department of Health Services.

Remediation of the stained surface soil in the central portion of the facility was conducted on August 11, 1993. Soil excavation and hauling was conducted by OST Trucks and Cranes of Ventura, California. The remediation activities were supervised by a Fugro-McClelland geologist. The upper 6 to 8 inches of soil in the stained surface soil area was scraped using a 545A Ford skiploader. Soil staining was observed to extend down a few inches throughout most of the area and no deeper than 6 inches. Approximately 15 cubic yards of soil was scraped, loaded, and removed by truck. The material was transported to the Gibson facility under hazardous waste manifest (see Appendix C).

During scraping of the contaminated soil along the easternmost edge, a 1- to 2-inch asphalt layer was observed. The layer appeared to be fairly old and patchy. The approximate configuration of the asphalt is shown on Plate 2. The discolored soil was not observed to be in contact with the asphalt layer. The asphalt layer was not removed. We recommend that during site grading, that layer be excavated, stockpiled separately, and transported offsite.

LIMITATIONS

This report has been prepared for the Burbank Glendale Pasadena Airport Authority as a field assessment and remediation at the former maintenance yard located at 4750 Wheatland Avenue in Los Angeles, California. In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the standard

of practice relative to the date of this report and in the locale of the project site for similar type studies. Fugro-McClelland (West), Inc., makes no warranty, express or implied, concerning any of the materials or services furnished by Fugro-McClelland (West), Inc.

The analyses and interpretations in this report have been developed based on the results of a limited soil sampling and analytical testing program. It should be recognized that subsurface contamination can vary laterally and with depth below a given site, and that the evaluation contained herein is based on sampling results at the sample locations identified.

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Table 1. Soil Sample Analytical Results, Hydrocarbon Compounds
(Values in milligrams per kilogram)

Sample Location	Depth (feet)	TRPH	Fuel Fingerprint	Benzene	Toluene	Ethylbenzene	Total Xylenes	Volatile Organics	Semi-Volatile Organics
DH-1	0.5	ND	ND	ND	ND	ND	ND	---	---
	5	ND	---	---	---	---	---	---	---
	10	---	---	---	---	---	---	---	---
	15	---	---	---	---	---	---	---	---
DH-2	0.5	---	---	---	---	---	---	---	---
	2.5	ND	---	---	---	---	---	ND	ND
	5	---	---	---	---	---	---	---	---
	10	ND	---	---	---	---	---	ND	ND
DH-3	5	ND	---	---	---	---	---	ND	ND
	10	ND	---	---	---	---	---	---	---
DH-4	0.5	---	---	---	---	---	---	---	---
	2.5	ND	ND	ND	ND	ND	ND	---	---
	5	---	---	---	---	---	---	---	---
	10	ND	---	---	---	---	---	---	---
DH-5	2.5	ND	---	---	---	---	---	---	---
	5	ND	ND	ND	ND	ND	ND	---	---
	7.5	---	---	---	---	---	---	---	---
	12.5	ND	---	---	---	---	---	---	---
DH-X (Duplicate from DH-5)	5	ND	ND	ND	ND	ND	ND	---	---
DH-6	10	ND	---	---	---	---	---	ND	ND
	15	---	---	---	---	---	---	---	---
DH-7	10	ND	---	---	---	---	---	---	---
	15	ND	---	---	---	---	---	ND	ND
DH-Y (Duplicate from DH-7)	10	---	---	---	---	---	---	---	---
DH-8	0.5	ND	---	---	---	---	---	---	---
	3	ND	---	---	---	---	---	---	---
	8	---	---	---	---	---	---	---	---
DH-9	0.5	ND	---	---	---	---	---	ND	ND
	3	ND	---	---	---	---	---	---	---
	8	---	---	---	---	---	---	---	---
DH-10	---	---	---	---	---	---	---	---	---
	0.5	110	61 (motor oil)	ND	ND	ND	ND	---	---
	3	ND	---	---	---	---	---	---	---
East Sidewall of Service Bay Pit	8	---	---	---	---	---	---	---	---
	3	ND	ND	ND	ND	ND	ND	---	---
West Sidewall of Service Bay Pit	3	ND	ND	---	---	---	---	ND	ND

Table 1. (Continued)

Sample Location	Depth (feet)	TRPH	Fuel Fingerprint	Benzene	Toluene	Ethylbenzene	Total Xylenes	Volatile Organics	Semi-Volatile Organics
Spoil Pile North	NA	ND	9.0 (motor oil)	ND	ND	ND	ND	---	---
CPT-1	0.5	ND	---	---	---	---	---	---	---
	3	---	3.0 (motor oil)	ND	ND	ND	ND	---	---
	8	76	24.0 (motor oil)	---	---	---	---	---	---
CPT-6	0.5	4.6**	---	---	---	---	---	---	---
	3	---	4.0 (motor oil)	ND	ND	ND	ND	---	---
	8	ND	---	---	---	---	---	---	---
CPT-7	0.5	---	---	---	---	---	---	---	---
	3	ND	---	---	---	---	---	---	---
	8	4.6**	---	---	---	---	---	---	---
	11	---	4.8 (motor oil)	ND	ND	ND	ND	---	---
	16	---	---	---	---	0.0011**	---	ND	---
Spoil Pile South	NA	ND	0.9 (motor oil)	---	---	---	---	ND	ND
Method Detection Limit		2	*	0.0003	0.0003	0.0003	0.001	*	*
Practical Quantitation Limit		10	*	0.005	0.005	0.005	0.015	*	*

* Detection limits listed on attached laboratory reports
 ** Result is above method limit, but below laboratory practical detection limit
 TRPH Total recoverable petroleum hydrocarbons
 ND Not detected at or above laboratory detection limits
 NA Not applicable
 --- Not analyzed
 Note: Motor oil concentrations are quantitated as diesel.

Table 2. Soil Sample Analytical Results, Metals

Compound Analyzed	Results in mg/kg	Results in mg/l						STLC	TTLC	Detection Limit	
	Stained Soil Near DH-10	DH-8 @ 0.5 foot	DH-8 @ 3 feet	DH-9 @ 0.5 foot	DH-9 @ 3 feet	DH-10 @ 0.5 foot	DH-10 @ 3 feet			Total Concentration	Soluble Concentration
Antimony	ND	--	--	--	--	--	--	15	500	10	NA
Arsenic	37	--	--	--	--	--	--	5	500	0.5	NA
Barium	110	--	--	--	--	--	--	100	10,000	2.0	NA
Beryllium	ND	--	--	--	--	--	--	0.75	75	2.0	NA
Cadmium	ND	--	--	--	--	--	--	1	100	2.0	NA
Chromium	42	--	--	--	--	--	--	560	2,500	2.0	NA
Cobalt	7.3	--	--	--	--	--	--	80	8,000	5.0	NA
Copper	61	--	--	--	--	--	--	25	2,500	2.0	NA
Lead	*300 (16) ¹	0.63	ND	0.98	0.10	0.34	ND	5	1,000	0.2	0.05
Mercury	0.3	--	--	--	--	--	--	0.2	20	0.1	NA
Molybdenum	ND	--	--	--	--	--	--	350	3,500	5.0	NA
Nickel	21	--	--	--	--	--	--	20	2,000	5.0	NA
Selenium	ND	--	--	--	--	--	--	1	100	0.5	NA
Silver	ND	--	--	--	--	--	--	5	500	2.0	NA
Thallium	ND	--	--	--	--	--	--	7	700	20	NA
Vanadium	24	--	--	--	--	--	--	24	2,400	5.0	NA
Zinc	180	--	--	--	--	--	--	250	5,000	5.0	NA

NA Not Applicable

-- Not Analyzed

ND Not Detected at Stated Detection Limit

STLC Soluble Threshold Limit Concentration

TTLC Total Threshold Limit Concentration

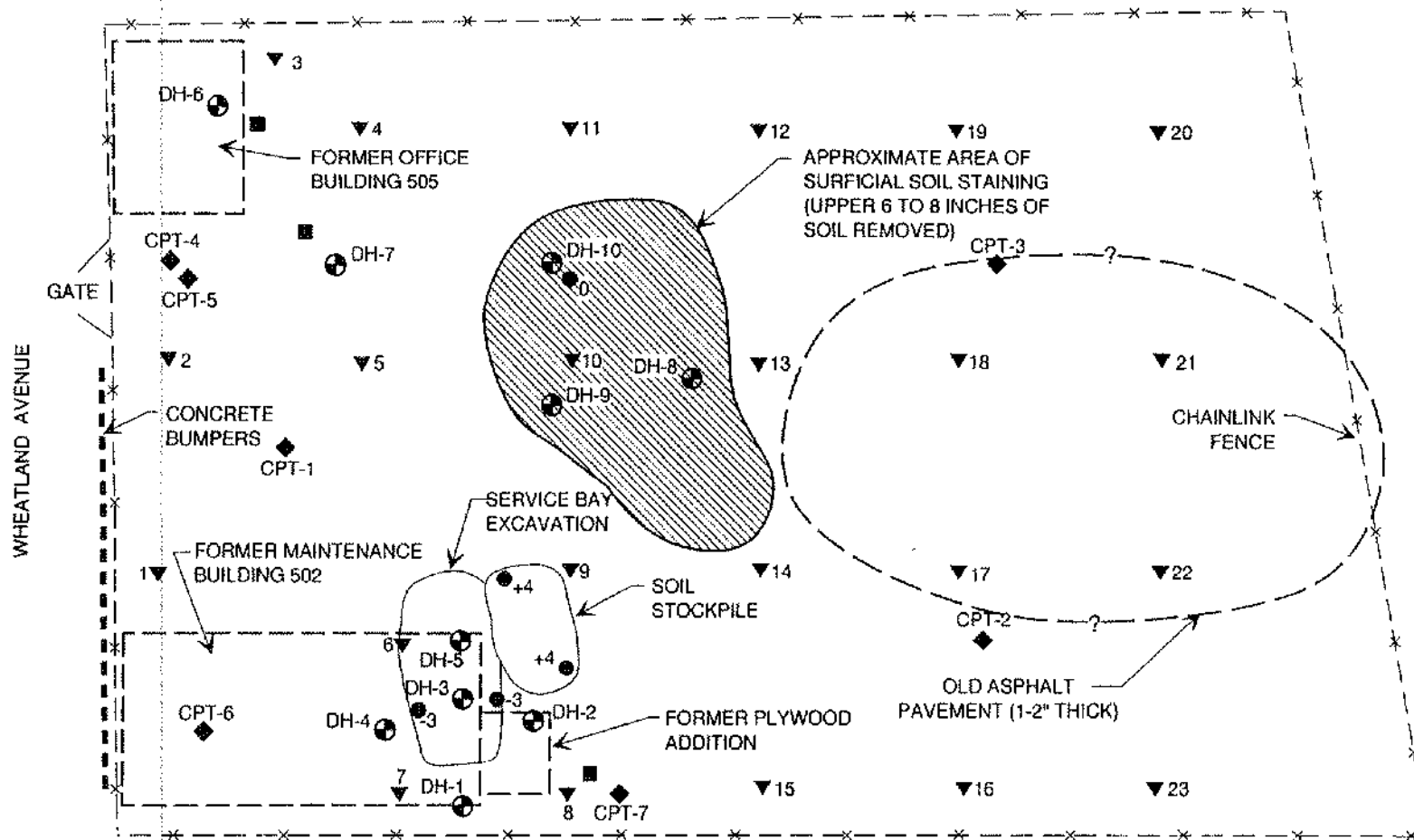
* Exceeds ten times the STLC. Waste Extraction Test (WET) performed to quantify the soluble lead concentration. Soluble Concentration in mg/l shown in parentheses

Analysis by NET Pacific

FUGRO  **McClelland**

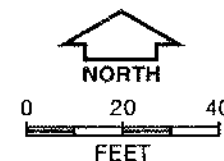


VICINITY MAP
Former Maintenance Yard
Wheatland Avenue
Los Angeles, California



LEGEND

- +4 ● Soil Sample Collection Site, Distance in Feet Above or Below Site Grade
- DH-1 ● Drill Hole
- Unidentified Hole, Approximately 10 Feet Deep, Possibly Septic System Dry Well
- ◆ CPT Location
- 1 ▼ Soil Gas Sample Location (Target Environmental Services, Inc.)



SITE PLAN
Former Maintenance Yard
Wheatland Avenue
Los Angeles, California

APPENDIX A
LOGS OF DRILL HOLES AND CONE PENETROMETER TESTS

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: South of service bay pit: former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
				1	(25)	Medium to coarse SAND (SP): medium dense, grayish brown, damp, some subrounded cobbles to 7" long - drilled through a rock, at 2.5'	
	5			2	(28)	SAND with silt and gravel (SP-SM): medium dense, pale yellowish brown, damp, granitic subrounded grains	
750							
	10			3	(83)		<5
	15			4	(70)		
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 16 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 1

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: East of service bay pit; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
MATERIAL DESCRIPTION							
				1	(19)	Fine to coarse SAND with silt and gravel (SP-SM); medium dense, dark yellowish brown, damp	0
				2	(20)		0
	5			3	(17)	- moderate yellowish brown, subrounded cobbles to 4" diameter, below 5'	0
750							
	10			4	(43)		0
	15			5	(53)		0
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 2
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-2
BGPAA 0020

August 1993
Project No. 92-41-3392



ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Center of service bay pit; former maintenance yard	PID READING
					SURFACE EL: 757 ft (approx MSL)	
					MATERIAL DESCRIPTION	
					Open pit to approximately 4 ft depth	
750	5		1	(28)	SAND with gravel (SP): medium dense, pale yellowish brown, damp, subrounded cobbles to 4"	0
	10		2	(62)		0
740	15					
	20					
730	25					
	30					
720	35					

COMPLETION DEPTH: 12 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 3

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380 #2

BCAPA A0021

ELEVATION, ft					LOCATION: West of service bay pit; former maintenance yard		PID READING
DEPTH, ft					SURFACE EL: 757 ft (approx MSL)		
MATERIAL SYMBOL					MATERIAL DESCRIPTION		
SAMPLES							
SAMPLE NO.							
SAMPLER BLOWS/FT							
750	0	1	(32)	SAND with gravel (SP); medium dense, moderate yellowish brown, damp, subrounded pebbles to 1"	0		
	3	2	(12)	- pale yellowish brown, at 3'	0		
	5	3	(46)	- with thin gravel layers and subrounded cobbles to 4", at 5'			
	10	4	(78)	- dense, moderate yellowish brown, gravel to 1/2", at 10'	0		
	15	5	(40/ 8")		0		
	20	6	(111/ 11")				
740							
730							
720							

COMPLETION DEPTH: 22 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 12 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 4
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: North-central portion of service bay pit; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
						Open pit to approximately 2 ft depth	
				1	(19)	Silty, fine to medium SAND (SM): medium dense, pale brown, damp	0
	5			3	(52)	SAND with gravel (SP): medium dense, pale brown, damp - laboratory duplicate sample (DH-X) collected at 5'	0*
750				4	(80)	- coarse grained, from 7.5'	0
	10			5	(14)	- loose, at 12.5'	0
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 14 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993
* Laboratory duplicate sample DH-X collected here

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 5
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER	BLOWS/FT	LOCATION: Northwest corner of property; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
750	5					SAND with gravel (SP): pale yellowish brown, moist	
	10		1	(44)		- dense, moderate yellowish brown, damp, subrounded gravel to 2", below 10'	0
740	15		2	(85/10")			
	20						
	25						
730	30						
	35						
720							

COMPLETION DEPTH: 16 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 11 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 6
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Northwestern portion of property; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
						Fine to medium SAND (SP): moderate yellowish brown, damp	
	5						
750							
	10			1	(28)	- medium dense at 10' - laboratory duplicate sample (DH-Y) collected at 10'	0
	15			2	(20)		0
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993
• Laboratory duplicate sample DH-Y collected here

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TOMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 7
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Central portion of property; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
				1	(86)	Fine to coarse SAND with gravel (SP): medium dense, moderate yellowish brown, damp	
				2	(30)	- decreasing gravel content, pale brown, below 3'	0
	5						
750				3	(13)	- damp, below 8'	0
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 10 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 6 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

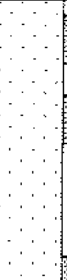

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 8
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3390#2

PLATE A-8
BGPAA 0026

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Central portion of property; former maintenance yard	PID READING	
					SURFACE EL: 757 ft (approx MSL)		
MATERIAL DESCRIPTION							
750	5		1	(20)	SAND (SP): medium dense, moderate brown, moist, with dusky brown staining in top 4"	< 5	
	2		(19)	- pale brown, damp, with gravel, below 3'	0		
	3		(25)	- minor gravel, below 8'	0		
740	10						
	15						
	20						
	25						
	30						
	35						
	730						
720							

COMPLETION DEPTH: 10 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TOMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 9
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Central portion of property; former maintenance yard	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
				1	(17)	Silty SAND (SM): medium dense, moderate brown, moist, some dusky brown staining in top 4 inches	0
				2	(23)	SAND (SP): medium dense, moderate brown, damp	0
750	5						
				3	(48)	- dense, pale brown, below 8'	
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							
COMPLETION DEPTH: 10 ft DEPTH TO WATER: Not Encountered CAVED TO DEPTH: 7 ft BACKFILLED WITH: Bentonite DRILLING DATE: May 20, 1993							DRILLING METHOD: Hollow Stem Auger DRILLED BY: Valley Well Drilling LOGGED BY: WCBorst CHECKED BY: TDMatteucci <small>The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.</small>
LOG OF DRILL HOLE NO. 10 Former Maintenance Yard, Proposed Heliport Facility 7540 Wheatland Avenue, Los Angeles, California							PLATE A-10 BGFAA-0028

August 1993
Project No. 92-41-3392

FUGRO  **McClelland**

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: 40 ft east of west end of property, between former buildings	PID READING
						SURFACE EL: 757 ft (approx MSL)	
						MATERIAL DESCRIPTION	
				1		Silty fine SAND (SM): loose, dark yellowish brown, damp, with subangular gravel to 1/2"	0
				2			0
				3			0
750	5						
	10						
	15						
740	20						
	25						
730	30						
	35						
720							

COMPLETION DEPTH: 9 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. CPT-1
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3390#2

PLATE AA 0029

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: Southwestern corner of property	PID READING
					SURFACE EL: 757 ft (approx MSL)	
					MATERIAL DESCRIPTION	
			1		Fine to coarse SAND (SP): dark yellowish brown, damp, with minor subrounded gravel to 1.25"	0
			2			0
			3			0
750	5					
	10					
	15					
740	20					
	25					
730	30					
	35					
720						

COMPLETION DEPTH: 9 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. CPT-6
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-12
BGPAA 0030

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLE NO.	SAMPLER BLOWS/FT	LOCATION: South property boundary	PID READING
					SURFACE EL: 757 ft (approx MSL)	
					MATERIAL DESCRIPTION	
			1		Fine SAND (SP): loose, moderate brown, damp	0
			2		Fine to medium SAND (SP): loose, dark yellowish brown, damp	0
750	5					
			3			0
	10					
			4		- granitic rock at 11'	0
					- soil gas sample taken at 12'	
	15					
740			5		- soil gas sample taken at 15'	0
					- moist, at 16'	0
	20					
	25					
730						
	30					
	35					
720						

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TOMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. CPT-7
Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

ELEVATION, ft	DEPTH, ft	1.2 MATERIAL SYMBOL	3,6 SAMPLE NO.	4,5 SAMPLER BLOWS/FT	LOCATION: The actual drill hole location referencing local landmarks or coordinates SURFACE EL: Using local, MSL, MLLW or other datum	MATERIAL DESCRIPTION 7,8	WELL ⁹
			1	25		Well graded GRAVEL (GW) Poorly graded GRAVEL (GP) GRAVEL with sand (GP or GW)	1
			2	(25)		Clayey GRAVEL (GC) Silty GRAVEL (GM)	2
90	10		3	Push		Well graded SAND (SW) Poorly graded SAND (SP) SAND with gravel (SP or SW)	3
			4			Clayey SAND (SC) Silty SAND (SM) SAND with silt (SP-SM)	4
80	20		5				5
						Fat CLAY (CH) Lean CLAY (CL) Sandy CLAY (CL) Silty CLAY (CL-ML)	6
						Elastic SILT (MH) SILT (ML) Sandy SILT (ML) Clayey SILT (ML/CL)	7
70	30						8
						High plasticity ORGANICS (OH) Low plasticity ORGANICS (OL)	9
60	40						10
						SANDSTONE SILTSTONE CLAYSTONE Paving Materials	11

General Notes *

* General notes reference the sections with italicized numbers in the header area

- Soil Texture Symbol
- Sloped line in symbol column indicates transitional boundary
- Samplers and sampler dimensions (unless otherwise noted in report text) are as follows:
Symbol for:

Sample No	Sampler Type
1	SPT Sampler, driven 1 3/8" ID, 2" OD
2	CA Liner Sampler, driven 2 3/8" ID, 3" OD
3	Thin-walled Tube, pushed 2 7/8" ID, 3" OD
4	Disturbed Sample (bulk)
5	No Sample Recovered
- Sampler Driving Resistance
Number of blows with 140 lb. hammer, falling 30-in. to drive sampler 1-ft. after seating sampler 6-in.; for example,

Blows/ft	Description
25	25 blows drove sampler 12" after initial 6" of seating
50/7"	50 blows drove sampler 7" after initial 6" of seating
Ref/3"	50 blows drove sampler 3" during initial 6" seating interval
- Blow counts for Liner Sampler shown in ()
- Length of sample symbol approximates recovery length
- Classification of Soils per ASTM D2487 or D2488
- Geologic Formation noted in bold font at the top of interpreted interval
- Well Construction Legend

Section	Description
1	Well Cap
2	Well Cap with concrete
3	Well Cap with grout
4	Solid pipe in concrete
5	Solid pipe in grout
6	Solid pipe in bentonite pellets
7	Solid pipe in sand
8	Slotted pipe in sand
9	Grout plug
10	Sand Backfill
11	Native Backfill
- Refer to report text for EPA Test Methods used
- Commonly used acronyms:

MSL	Mean Sea Level
MLLW	Mean Lower Low Water
PPM	Parts Per Million
PPMV	Parts Per Million by Volume
PCF	Pounds Per Cubic Foot

APPENDIX B
LABORATORY ANALYTICAL REPORTS



NATIONAL
ENVIRONMENTAL
® TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 954-0232

DOHS Certificate Number: 1192
Expiration Date: May 31, 1994

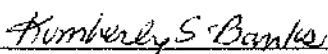
06/07/1993

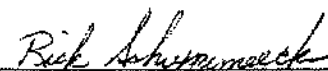
Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

Client Ref: Burbank Airport Maintenance
Date Received: 05/27/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.


Kimberly S. Banks
Project Manager


Rick Schrynmeeckers
Laboratory Director

KB:rm

Attachments:

Analytical Reports
Chain of Custody Document
QA/QC Data Reports
Invoice

Client Net Acct No: 13200
NET Job No: 93.00588



BGPAA 0034



CASE NARRATIVE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/07/1993

NET Job Number: 93.00588

Tom Matteucci

Following is the case narrative for the following samples
submitted to NET, Inc. - Burbank for analysis:

I. CROSS REFERENCE TABLE:

Sample Number	Sample Description	Date Taken	Date Received
54169	CPT-6 @ 1/2'	05/27/1993	05/27/1993
54170	CPT-6 @ 8'	05/27/1993	05/28/1993
54171	CPT-7 @ 3'	05/27/1993	05/28/1993
54172	CPT-7 @ 8'	05/27/1993	05/28/1993
54173	CPT-1 @ 1/2'	05/27/1993	05/28/1993
54174	CPT-1 @ 8'	05/27/1993	05/28/1993
54175	CPT-6 @ 3'	05/27/1993	05/28/1993
54176	CPT-7 @ 11'	05/27/1993	05/28/1993
54177	CPT-1 @ 3'	05/27/1993	05/28/1993
54178	CPT-7 @ 16'	05/27/1993	05/28/1993

This Quality Control report is generated on a batch basis. All
information contained in this report is for the analytical batch(es)
in which your sample(s) were analyzed.



CASE NARRATIVE (cont.)

II. EXTRACTION: No exceptions were encountered.

III. ANALYSIS

A. Holding Times:

No exceptions were encountered.

B. Analytical Exceptions:

Motor oil was detected in samples analyzed for TPH as Diesel, these samples are flagged with a "n" qualifier.

Sample 54178 , analyzed for method 8240, showed trace levels of Ethyl benzene, this compound was flagged with a "J" qualifier indicating that the result is below the reported PQL.

IV. QUALITY CONTROL

A. Method Blanks:

No exceptions were encountered.

B. Surrogate Recoveries:

No exceptions were encountered.

C. Matrix Spike/Matrix Spike Duplicates (MS/MSD):

No exceptions were encountered.

D. Laboratory Control Samples (LCS):

No exceptions were encountered.

V. OTHER



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

NET Job No.: 93.00588

Date Reported: 06/07/1993

Sample ID : CPT-6 @ 1/2'

Lab No. : 54169

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	4.6		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 4

BGPAA 0037



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

NET Job No.: 93.00588

Date Reported: 06/07/1993

Sample ID : CPT-6 @ 8'

Lab No. : 54170

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 5

BGPAA 0038



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/07/1993

NET Job No.: 93.00588

Sample ID : CPT-7 @ 3'

Lab No. : 54171

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 6

BGPAA 0039



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

NET Job No.: 93.00588

Date Reported: 06/07/1993

Sample ID : CPT-7 @ 8'

Lab No. : 54172

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	4.6		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 7

BGPAA 0040



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

NET Job No.: 93.00588

Date Reported: 06/07/1993

Sample ID : CPT-1 @ 1/2'

Lab No. : 54173

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 8

BGPAA 0041



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

NET Job No.: 93.00588
Sample ID : CPT-1 @ 8'
Lab No. : 54174

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	76		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

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BGPAA 0042



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/07/1993

NET Job No.: 93.00588

Sample ID : CPT-6 @ 3'

Lab No. : 54175

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT, LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	82		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES								
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spk Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	88		% Rec.			06/02/1993	scn

n: Motor Oil detected at 4.0 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

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BGPAA 0043



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/07/1993

NET Job No.: 93.00588

Sample ID : CPT-7 @ 11'

Lab No. : 54176

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	88		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES		--					06/02/1993	scn
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spike Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	91		% Rec.			06/02/1993	scn

n: Motor Oil detected at 4.8 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

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BGPAA 0044



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/07/1993

NET Job No.: 93.00588

Sample ID : CPT-1 @ 3'

Lab No. : 54177

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	98		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES		--					06/02/1993	scn
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spike Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	96		% Rec.			06/02/1993	scn

n: Motor Oil detected at 3.0 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

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BGPAA 0045



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/07/1993

NET Job No.: 93.00588

Sample ID : CPT-7 @ 16'

Lab No. : 54178

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD 8240 (GCMS, Solid)								
Extraction Method		5030					06/02/1993	shu
Date Extracted		06-02-93					06/02/1993	shu
Dilution Factor		1					06/02/1993	shu
Acetone	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
Benzene	8240	ND		ug/Kg	3.4	10	06/02/1993	shu
Bromodichloromethane	8240	ND		ug/Kg	0.9	5	06/02/1993	shu
Bromoform	8240	ND		ug/Kg	1.4	5	06/02/1993	shu
Bromomethane	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
2-Butanone	8240	ND		ug/Kg	4.0	10	06/02/1993	shu
Carbon disulfide	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
Carbon tetrachloride	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
Chlorobenzene	8240	ND		ug/Kg	1.0	5	06/02/1993	shu
Chloroethane	8240	ND		ug/Kg	0.8	5	06/02/1993	shu
2-Chloroethyl vinyl ether	8240	ND		ug/Kg	0.7	10	06/02/1993	shu
Chloroform	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Chloromethane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Dibromochloromethane	8240	ND		ug/Kg	1.2	5	06/02/1993	shu
1,2-Dichlorobenzene	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
1,3-Dichlorobenzene	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
1,4-Dichlorobenzene	8240	ND		ug/Kg	0.5	5	06/02/1993	shu
1,1-Dichloroethane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
1,2-Dichloroethane	8240	ND		ug/Kg	1.3	5	06/02/1993	shu
1,1-Dichloroethene	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
trans-1,2-Dichloroethene	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
1,2-Dichloropropane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
cis-1,3-Dichloropropene	8240	ND		ug/Kg	1.5	5	06/02/1993	shu
trans-1,3-Dichloropropene	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Ethyl benzene	8240	1.1	J	ug/Kg	0.7	5	06/02/1993	shu
2-Hexanone	8240	ND		ug/Kg	2.1	10	06/02/1993	shu
Methylene chloride	8240	ND		ug/Kg	1.5	10	06/02/1993	shu
4-Methyl-2-pentanone	8240	ND		ug/Kg	1.0	10	06/02/1993	shu
Styrene	8240	ND		ug/Kg	0.3	5	06/02/1993	shu
1,1,2,2-Tetrachloroethane	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
Tetrachloroethene	8240	ND		ug/Kg	0.5	5	06/02/1993	shu
Toluene	8240	ND		ug/Kg	1.1	5	06/02/1993	shu
1,1,1-Trichloroethane	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
1,1,2-Trichloroethane	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
Trichloroethene	8240	ND		ug/Kg	0.9	5	06/02/1993	shu
Trichlorofluoromethane	8240	ND		ug/Kg	0.3	5	06/02/1993	shu
Vinyl acetate	8240	ND		ug/Kg	0.8	10	06/02/1993	shu
Vinyl chloride	8240	ND		ug/Kg	0.8	5	06/02/1993	shu
Xylenes (total)	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
SURROGATE RESULTS							06/02/1993	shu
Spk Conc Toluene-d8	8240	25		ug/Kg			06/02/1993	shu
Toluene-d8	8240	101		% Rec.			06/02/1993	shu
Spk Conc Bromofluorobenzene	8240	25		ug/Kg			06/02/1993	shu
Bromofluorobenzene	8240	88		% Rec.			06/02/1993	shu
Spk Conc 1,2-DCA-d4	8240	25		ug/Kg			06/02/1993	shu
1,2-Dichloroethane-d4	8240	100		% Rec.			06/02/1993	shu

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

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BGPAA 0046



QUALITY CONTROL REPORT

Fugro-McClelland
5855 Olivias Park Drive
Ventura, CA 93003

06/23/1993

NET Job Number: 93.00588

Tom Matteucci

Enclosed is the Quality Control data for the following samples submitted to NET, Inc. - Burbank for analysis:

Sample Number	Sample Description	Date Taken	Date Received
54169	CPT-6 @ 1/2'	05/27/1993	05/27/1993
54170	CPT-6 @ 8'	05/27/1993	05/28/1993
54171	CPT-7 @ 3'	05/27/1993	05/28/1993
54172	CPT-7 @ 8'	05/27/1993	05/28/1993
54173	CPT-1 @ 1/2'	05/27/1993	05/28/1993
54174	CPT-1 @ 8'	05/27/1993	05/28/1993
54175	CPT-6 @ 3'	05/27/1993	05/28/1993
54176	CPT-7 @ 11'	05/27/1993	05/28/1993
54177	CPT-1 @ 3'	05/27/1993	05/28/1993
54178	CPT-7 @ 16'	05/27/1993	05/28/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.



QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Method 418.1 (IR,IRPH)		16		51	51	100.0
METHOD DOHS/LUFT,LDL						
as Diesel		164		500.0	513	102.6
Chlorobenzene		164		50.0	45.6	91.2
Di-n-octyl-phthalate		164		50.0	N/A	
METHOD 8020/8015 MOD. (LDLS)						
Benzene		86		20.0	19.5	97.5
Ethylbenzene		86		20.0	23.0	115.0
Toluene		86		20.0	22.3	111.5
Xylenes, total		86		60.0	66.3	110.5
as Gasoline		86		120.0	131.0	109.2
Bromofluorobenzene		86		20.0	22.25	111.3
METHOD 8240(GCMS,Solid)						
Acetone		84		50.0	58.1	116.2
Benzene		84		50.0	45.7	91.4
Bromodichloromethane		84		50.0	46.3	92.6
Bromoform		84		50.0	48.7	97.4
Bromomethane		84		50.0	50.1	100.2
2-Butanone		84		50.0	58.7	117.4
Carbon disulfide		84		50.0	55.9	111.8
Carbon tetrachloride		84		50.0	48.0	96.0
Chlorobenzene		84		50.0	48.0	96.0
Chloroethane		84		50.0	49.3	98.6
2-Chloroethyl vinyl ether		84		50.0	40.4	80.8
Chloroform		84		50.0	47.0	94.0

CCV - Continuing Calibration Verification



QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Chloromethane		84		50.0	48.9	97.8
Dibromochloromethane		84		50.0	44.2	88.4
1,2-Dichlorobenzene		84		50.0	41.3	82.6
1,3-Dichlorobenzene		84		50.0	43.4	86.8
1,4-Dichlorobenzene		84		50.0	43.7	87.4
1,1-Dichloroethane		84		50.0	45.8	91.6
1,2-Dichloroethane		84		50.0	47.6	95.2
1,1-Dichloroethene		84		50.0	48.5	97.0
trans-1,2-Dichloroethene		84		50.0	45.1	90.2
1,2-Dichloropropane		84		50.0	43.0	86.0
cis-1,3-Dichloropropene		84		50.0	46.0	92.0
trans-1,3-Dichloropropene		84		50.0	45.1	90.2
Ethyl benzene		84		50.0	48.0	96.0
2-Hexanone		84		50.0	45.4	90.8
Methylene chloride		84		50.0	46.0	92.0
4-Methyl-2-pentanone		84		50.0	45.2	90.4
Styrene		84		50.0	47.0	94.0
1,1,2,2-Tetrachloroethane		84		50.0	44.9	89.8
Tetrachloroethene		84		50.0	45.4	90.8
Toluene		84		50.0	46.2	92.4
1,1,1-Trichloroethane		84		50.0	49.0	98.0
1,1,2-Trichloroethane		84		50.0	44.6	89.2
Trichloroethene		84		50.0	45.7	91.4
Trichlorofluoromethane		84		50.0	56.1	112.2
Vinyl acetate		84		50.0	41.6	83.2

CCV - Continuing Calibration Verification



QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Vinyl chloride		84		50.0	50.5	101.0
Xylenes (total)		84		150	145	96.7
Toluene-d8		84		50	45.6	91.2
Bromofluorobenzene		84		50.0	50.1	100.2
1,2-Dichloroethane-d4		84		50	50.2	100.4

CCV - Continuing Calibration Verification



QUALITY CONTROL REPORT BLANKS

Fugro-McClelland
5855 Olivias Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
Method 418.1 (IR,IRPH)		16	ND		mg/Kg
METHOD DOHS/LUFT,LDL					
as Diesel	3	164	ND		mg/Kg
Spk Conc Chlorobenzene	3	164	2.5		mg/Kg
Chlorobenzene	3	164	N/A		% Rec.
Spk Conc Di-n-octyl-phthalate	3	164	2.5		mg/Kg
Di-n-octyl-phthalate	3	164	114		% Rec.
METHOD 8020/8015 MOD. (LDLS)					
Benzene		86	ND		mg/Kg
Ethylbenzene		86	ND		mg/Kg
Toluene		86	ND		mg/Kg
Xylenes, total		86	ND		mg/Kg
as Gasoline		86	ND		mg/Kg
Bromofluorobenzene		86	104		% Rec.
METHOD 8240(GCMS,Solid)					
Acetone		84	ND		ug/Kg
Benzene		84	ND		ug/Kg
Bromodichloromethane		84	ND		ug/Kg
Bromoform		84	ND		ug/Kg
Bromomethane		84	ND		ug/Kg
2-Butanone		84	ND		ug/Kg
Carbon disulfide		84	ND		ug/Kg
Carbon tetrachloride		84	ND		ug/Kg
Chlorobenzene		84	ND		ug/Kg
Chloroethane		84	ND		ug/Kg
2-Chloroethyl vinyl ether		84	ND		ug/Kg
Chloroform		84	ND		ug/Kg
Chloromethane		84	ND		ug/Kg
Dibromochloromethane		84	ND		ug/Kg

..... Advisory Control Limits for Blanks:

Organics/Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than 1/2 the Reporting Limit.



QUALITY CONTROL REPORT BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
1,2-Dichlorobenzene		84	ND		ug/Kg
1,3-Dichlorobenzene		84	ND		ug/Kg
1,4-Dichlorobenzene		84	ND		ug/Kg
1,1-Dichloroethane		84	ND		ug/Kg
1,2-Dichloroethane		84	ND		ug/Kg
1,1-Dichloroethene		84	ND		ug/Kg
trans-1,2-Dichloroethene		84	ND		ug/Kg
1,2-Dichloropropane		84	ND		ug/Kg
cis-1,3-Dichloropropene		84	ND		ug/Kg
trans-1,3-Dichloropropene		84	ND		ug/Kg
Ethyl benzene		84	ND		ug/Kg
2-Hexanone		84	ND		ug/Kg
Methylene chloride		84	ND		ug/Kg
4-Methyl-2-pentanone		84	ND		ug/Kg
Styrene		84	ND		ug/Kg
1,1,2,2-Tetrachloroethane		84	ND		ug/Kg
Tetrachloroethene		84	ND		ug/Kg
Toluene		84	ND		ug/Kg
1,1,1-Trichloroethane		84	ND		ug/Kg
1,1,2-Trichloroethane		84	ND		ug/Kg
Trichloroethene		84	ND		ug/Kg
Trichlorofluoromethane		84	ND		ug/Kg
Vinyl acetate		84	ND		ug/Kg
Vinyl chloride		84	ND		ug/Kg
Xylenes (total)		84	ND		ug/Kg
Spk Conc Toluene-d8		84	25		ug/Kg
Toluene-d8		84	104		% Rec.
Spk Conc Bromofluorobenzene		84	25		ug/Kg
Bromofluorobenzene		84	100		% Rec.

Advisory Control Limits for Blanks

Organics/Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than 1/2 the Reporting Limit.



QUALITY CONTROL REPORT BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
Spk Conc 1,2-DCA-d4		84	25		ug/Kg
1,2-Dichloroethane-d4		84	98		% Rec.

..... Advisory Control Limits for Blanks:

Organics/Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than 1/2 the Reporting Limit.



ADVISORY CONTROL LIMITS FOR BLANKS:

Organics/Metals/Wet Chemistry/ Conventional/GC-

All compounds should be less than 1/2 the Reporting Limit.

SURROGATE SPIKE RECOVERY (% RECOVERY) IN BLANKS AND SAMPLES:

	Soil/Sludge Matrix	Water Matrix
EPA Method 601/8010 for Volatiles:		
2-Chlorotoluene	70-130*	70-130*
EPA Method 602/8020 for Volatiles:		
Chlorobenzene	70-130*	70-130*
EPA Method 624/8240/8260 for Volatiles:		
1,2-Dichloroethane-d4	70-130*	70-130*
Toluene d-8	70-130*	70-130*
Bromofluorobenzene	70-130*	70-130*
EPA Method 625/8270 for Semi-Volatiles/ Base Neutral Acids		
2-Fluorophenol	25-121	21-100
Phenol -d5	24-113	10- 94
Nitrobenzene-d5	23-120	35-114
2-Fluorobiphenyl	30-115	43-116
Terphenyl-d14	18-137	33-141
2,4,6-Tribromophenol	19-122	10-123
Method 8015 Modified for Fuel Hydrocarbon		
as gas:		
Bromofluorobenzene	70-130*	70-130*
Method DOHS/LUFT		
as diesel/kerosene:		
Chlorobenzene	60-140*	60-140*
Di-octyl phthalate	60-140*	60-140*

*Advisory limits.



QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	LCS True Concentration	LCS Concentration Found	LCS % Recovery	LCS % RPD*	Flags	Units
Method 418.1 (IR,IRPH) METHOD DOHS/LUFT,LDL		16	35	34	97.1			mg/Kg
as Diesel	3	164	2	2.46	123.0			mg/Kg
Chlorobenzene	3	164	2.5	2.21	88.4			% Rec.
Di-n-octyl-phthalate	3	164	2.5	N/A	N/A			% Rec.
METHOD DOHS/LUFT,LDL								
as Diesel	3	164	2	1.89	94.5			mg/Kg
Chlorobenzene	3	164	2.5	2.58	103.2			% Rec.
Di-n-octyl-phthalate	3	164	2.5	N/A	N/A			% Rec.
METHOD 8020/8015 MOD. (LDLS)								
Benzene		86	0.024	0.0228	95.0			mg/Kg
Ethylbenzene		86	0.024	0.0246	102.5			mg/Kg
Toluene		86	0.024	0.0252	105.0			mg/Kg
Xylenes, total		86	0.072	0.0726	100.8			mg/Kg
as Gasoline		86	0.144	0.1452	100.8			mg/Kg
Bromofluorobenzene		86	0.024	0.0214	89.2			% Rec.
METHOD 8240(GCMS,Solid)								
Benzene		84	25	23.5	94.0			ug/Kg
Chlorobenzene		84	25	27.9	111.6			ug/Kg
1,1-Dichloroethene		84	25	25.9	103.6			ug/Kg
Toluene		84	25	24.0	96.0			ug/Kg
Trichloroethene		84	25	28.7	114.8			ug/Kg
Bromofluorobenzene		84	25	22.8	91.2			% Rec.
1,2-Dichloroethane-d4		84	25	23.6	94.4			% Rec.

LCS - Laboratory Control Standard

Advisory Control Limits - Inorganics - LCS recovery should be 80 - 120%.

*LCS/LCS DUPLICATE



ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE /
LABORATORY CONTROL SAMPLE (LCS)

		SOIL/SLUDGE MATRIX		WATER MATRIX	
ANALYTE	ANALYTICAL METHOD	%R (RANGE)*	MAX % RPD**	%R (RANGE)*	MAX % RPD**
17 CAM Metals					
Antimony	6010	60-140	25	60-140	25
Arsenic	7061	80-120	20	80-120	20
Barium	6010	80-120	20	80-120	20
Beryllium	6010	80-120	20	80-120	20
Cadmium	6010	80-120	20	80-120	20
Chromium	6010	80-120	20	80-120	20
Cobalt	6010	80-120	20	80-120	20
Copper	6010	80-120	20	80-120	20
Lead	6010	80-120	20	80-120	20
Mercury	7471/7470	80-120	20	80-120	20
Molybdenum	6010	80-120	20	80-120	20
Nickel	6010	80-120	20	80-120	20
Selenium	7741	80-120	20	80-120	20
Silver	6010	80-120	20	80-120	20
Thallium	6010	80-120	20	80-120	20
Vanadium	6010	80-120	20	80-120	20
Zinc	6010	80-120	20	80-120	20
Volatiles 601/602/624/8010/8020/8260					
Dichloroethene		80-120	20	80-120	20
Trichloroethene		80-120	20	80-120	20
Benzene		80-120	20	80-120	20
Toluene		80-120	20	80-120	20
Chlorobenzene		80-120	20	80-120	20
Semi-Volatiles 625/8270 Base Neutral Acids					
1,2,4-Trichlorobenzene		38-107	23	39-98	28
Acenaphthene		31-187	19	46-118	31
2,4-Dinitrotoluene		28-89	47	24-96	38
Pyrene		35-142	36	26-127	31
N-Nitrosodi-N-Propylamine		41-126	38	41-116	38
1,4-Dichlorobenzene		28-104	27	36-97	28
Pentachlorophenol		17-109	47	9-103	50
Phenol		26-90	35	12-89	42
2-Chlorophenol		25-102	50	27-123	40
4-Chloro-3-methylphenol		26-103	39	23-97	42
4-Nitrophenol		11-114	50	10-80	50

* Advisory Control Limits

** % RPD for LCS/LCS Duplicate



ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE/
LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX		WATER MATRIX	
		%R (RANGE)	MAX % RPD**	%R (RANGE)	MAX %RPD**
Fuel Hydrocarbon 8015 MOD.					
Gas		80-120*	20*	80-120*	20*
Diesel		80-120*	20*	80-120*	20*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	80-120*	20*	80-120*	20*

* Advisory Limits

** % RPD for LCS/LCS Duplicate



QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588
NET Matrix Spike Sample ID:

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike/ MSD Amount	Units	Percent Recovery	MSD Result	Percent Recovery	MS/MSD RPD	Flags
Method 418.1 (IR,TRPH)		16	40	4.6	35	mg/Kg	101.1	40	101.1	0.0	
METHOD DOHS/LUFT,LDL											
as Diesel	3	164	5.1	ND	2.0	mg/Kg	255.0	8.0	400.0	44.3	n
METHOD 8020/8015 MOD. (LDLS											
as Gasoline		86	1,100	1,300	0.144	mg/Kg	-138888.	1,100	-138888.	0.0	m
METHOD 8020/8015 MOD. (LDLS											
Benzene		86	0.021	ND	0.024	mg/Kg	87.5	0.019	79.2	10.0	
Toluene		86	0.023	ND	0.024	mg/Kg	95.8	0.021	87.5	9.1	
as Gasoline		86	0.135	ND	0.144	mg/Kg	93.8	0.125	86.8	7.8	
METHOD 8240(GCMS,Solid)											
Benzene		84	21.2	ND	25	ug/Kg	84.8	24.5	98.0	14.4	
Chlorobenzene		84	26.9	ND	25	ug/Kg	107.6	26.1	104.4	3.0	
1,1-Dichloroethene		84	25.9	ND	25	ug/Kg	103.6	25.6	102.4	1.2	
Toluene		84	21.7	ND	25	ug/Kg	86.8	22.1	88.4	1.8	
Trichloroethene		84	22.3	ND	25	ug/Kg	89.2	25.0	100.0	11.3	

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference



ACCEPTANCE LIMITS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX		WATER MATRIX	
		%R (RANGE)	MAX % RPD	%R (RANGE)	MAX % RPD

17 CAM Metals

Antimony	6010	20-125	25	50-120	20
Arsenic	7061	55-120	30	75-115	25
Barium	6010	75-120	20	80-120	25
Beryllium	6010	80-120	15	80-120	10
Cadmium	6010	80-120*	20	80-115	10
Chromium	6010	80-115	20	85-110	10
Cobalt	6010	75-115	25	80-110	10
Copper	6010	75-115	20	80-120*	15
Lead	6010	80-120*	20	80-120*	20
Mercury	7471/7470	60-120	15	60-120	15
Molybdenum	6010	80-120	15	85-115	10
Nickel	6010	80-115	15	80-120	15
Selenium	7741	50-125	30	60-125	25
Silver	6010	75-120*	15	75-120*	15
Thallium	6010	70-115	20	75-115	15
Vanadium	6010	80-115	10	85-115	10
Zinc	6010	75-120*	20	80-120*	15

Volatiles 601/602/624/8010/8020/8260

Dichloroethene	70-130	25	70-130	25
Trichloroethene	70-130	25	70-130	25
Benzene	70-130	25	70-130	25
Toluene	70-130	25	70-130	25
Chlorobenzene	70-130	25	70-130	25

Semi-Volatiles 625/8270 Base Neutral Acids

1,2,4-Trichlorobenzene	38-107	23	39- 98	28
Acenaphthene	31-187	19	46-118	31
2,4-Dinitrotoluene	28- 89	47	24- 96	38
Pyrene	35-142	36	26-127	31
N-Nitrosodi-N-Propylamine	41-126	38	41-116	38
1,4-Dichlorobenzene	28-104	27	36- 97	28
Pentachlorophenol	17-109	47	9- 103	50
Phenol	26-90	35	12- 89	42
2-Chlorophenol	25-102	50	27-123	40
4-Chloro-3-methylphenol	26-103	39	23- 97	42
4-Nitrophenol	11-114	50	10- 80	50



ACCEPTANCE LIMITS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX		WATER MATRIX	
		%R (RANGE)	MAX % RPD	%R (RANGE)	MAX % RPD
Fuel Hydrocarbon	8015 MOD.				
Gas		70-130*	25*	70-130*	25*
Diesel		50-150*	25*	50-150*	25*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	70-130*	25*	70-130*	25*

*Advisory Limits

JOB NO		PROJECT NAME		LOCATION									
92-41-3392		Burbank Glendale Pasadena Airport		Tom Matucci									
Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested						Comments	
						A	B	C	D	E	F		
CPT-6 @ 1/2 ft	5-27-93	1215	6" brass sleeve	Soil	icc to cotton	X							will call with analyzer
CPT-6 @ 3'	"	1220	"	Soil			X	X					
CPT-6 @ 8'	"	1230	"	Soil		X							
CPT-7 @ 1/2 ft	"	1240	"	"									
CPT-7 @ 3/4 ft	"	1255	"	"		X							
CPT-7 @ 8 feet	"	1310	"	"		X							
CPT-7 @ 11 feet	"	1320	"	"			X	X					
CPT-7 @ 16 feet	"	1355	"	"				X					
CPT-1 @ 1/2 ft	"	1415	"	"		X							
CPT-1 @ 3'	"	1425	"	"			X	X					
CPT-1 @ 8'	"	1445	"	"		X							For arrived 5/28.
CPT-7 @ 12'	"	1330	Feeder bag	gas									
CPT-7 @ 15'	"	1340	"	gas									
<div style="display: flex; justify-content: space-between;"> <div> <p>Relinquished By (Signature)</p> <p><u>Wendy Brown</u></p> <p>Date</p> <p><u>5-27-93</u></p> <p>Time</p> <p><u>1541</u></p> </div> <div> <p>Received By (Signature)</p> <p><u>Wendy Brown</u></p> </div> </div>													
<p>Analyses:</p> <p>A. <u>Typical (GIE.1)</u></p> <p>B. <u>Final (GIE.15015 mod)</u></p> <p>C. <u>PTX-1 (8220)</u></p> <p>D. <u>100 (82240)</u></p> <p>E.</p> <p>F.</p>													



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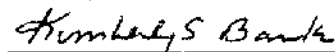
06/10/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

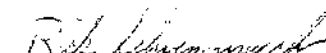
Client Ref: Burbank Airport Maintenance
Date Received: 05/27/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.



Kimberly S. Banks
Project Manager



Rick Schrynemeeckers
Laboratory Director

KB:rm

Attachments:

Analytical Reports

Chain of Custody Document

QA/QC Data Reports

Invoice

Client Net Acct No: 13200

NET Job No: 93.00623



BGPAA 0062



CASE NARRATIVE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/10/1993

NET Job Number: 93.00623

Tom Matteucci

Following is the case narrative for the following samples
submitted to NET, Inc. - Burbank for analysis:

I. CROSS REFERENCE TABLE:

Sample Number	Sample Description	Date Taken	Date Received
54294	CPT-1 @ 8'	05/27/1993	05/27/1993

This Quality Control report is generated on a batch basis. All
information contained in this report is for the analytical batch(es)
in which your sample(s) were analyzed.



CASE NARRATIVE (cont.)

II. EXTRACTION:

No exceptions were encountered.

III. ANALYSIS

A. Holding Times:

No exceptions were encountered.

B. Analytical Exceptions:

Sample 54294, hydrocarbons heavier than diesel detected, sample flagged with an "o" qualifier.

IV. QUALITY CONTROL

A. Method Blanks:

No exceptions were encountered.

B. Surrogate Recoveries:

No exceptions were encountered.

C. Matrix Spike/Matrix Spike Duplicates (MS/MSD):

No MS/MSD performed due to insufficient sample volume.

D. Laboratory Control Samples (LCS):

The two LCS's associated with this sample failed the 80-120% advisory limits, but both were within the 70-130% control limits. The %RSD was within acceptance limits. The surrogate recovery was also within acceptance limits. No sample remained, so sample could not be re-analyzed.

V. OTHER



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

Date Sampled: 05/27/1993

Date Reported: 06/10/1993

NET Job No.: 93.00623

Sample ID : CPT-1 @ 8'

Lab No. : 54294

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/10/1993	mmz
Date Extracted	8015 MOD.	06-09-93					06/10/1993	mmz
Dilution Factor	8015 MOD.	1					06/10/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/10/1993	mmz
as Diesel	8015 MOD.	ND	o	mg/Kg	1.0	10	06/10/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/10/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/10/1993	mmz
Chlorobenzene	8015 MOD.	115		% Rec.			06/10/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	2.5		mg/Kg			06/10/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/10/1993	mmz

o: Motor Oil detected at 24 mg/Kg (quantitated as Diesel) No other TPH components detected by this method.

ND: Not detected at the Method Detection Limit (MDL)

PQL: Practical Quantitation Limit

page: 4

BGPAA 0065



QUALITY CONTROL REPORT

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

NET Job Number: 93.00623

Tom Matteucci

Enclosed is the Quality Control data for the following samples submitted to NET, Inc. - Burbank for analysis:

Sample Number	Sample Description	Date Taken	Date Received
54294	CPT-1 @ 8'	05/27/1993	05/27/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.



QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
METHOD DOHS/LUFT, LDL						
as Diesel		167		500.0	526	105.2
Chlorobenzene		167		50.0	46.87	93.7
Di-n-octyl-phthalate		167		50.0	N/A	
METHOD DOHS/LUFT, LDL						
as Diesel		172		500.0	552	110.4
Chlorobenzene		172		50.0	47.75	95.5
Di-n-octyl-phthalate		172		50.0	N/A	

CCV - Continuing Calibration Verification



QUALITY CONTROL REPORT BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
METHOD DOHS/LUFT,LDL					
as Diesel	4	172	ND		mg/Kg
Surrogate Spike-TPH	4	172	--		
Spk Conc Chlorobenzene	4	172	50		mg/Kg
Chlorobenzene	4	172	77		% Rec.
Spk Conc Di-n-octyl-phthalate	4	172	50		mg/Kg
Di-n-octyl-phthalate	4	172	N/A		% Rec.

Advisory Control Limits for Blanks:

Organics/Metals/Wet Chemistry/ Conventional/GC - all compounds should be less than 1/2 the Reporting Limit.



ADVISORY CONTROL LIMITS FOR BLANKS:

Organics/Metals/Wet Chemistry/ Conventional/GC-

All compounds should be less than 1/2 the Reporting limit.

SURROGATE SPIKE RECOVERY (% RECOVERY) IN BLANKS AND SAMPLES:

	Soil/Sludge Matrix	Water Matrix
EPA Method 601/8010 for Volatiles:		
2-Chlorotoluene	70-130*	70-130*
EPA Method 602/8020 for Volatiles:		
Chlorobenzene	70-130*	70-130*
EPA Method 624/8240/8260 for Volatiles:		
1,2-Dichloroethane-d4	70-130*	70-130*
Toluene d-8	70-130*	70-130*
Bromofluorobenzene	70-130*	70-130*
EPA Method 625/8270 for Semi-Volatiles/ Base Neutral Acids		
2-Fluorophenol	25-121	21-100
Phenol -d5	24-113	10- 94
Nitrobenzene-d5	23-120	35-114
2-Fluorobiphenyl	30-115	43-116
Terphenyl-d14	18-137	33-141
2,4,6-Tribromophenol	19-122	10-123
Method 8015 Modified for Fuel Hydrocarbon		
as gas:		
Bromofluorobenzene	70-130*	70-130*
Method DOHS/LUFT		
as diesel/kerosene:		
Chlorobenzene	60-140*	60-140*
Di-octyl phthalate	60-140*	60-140*

*Advisory limits.



QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	LCS True Concentration	LCS Concentration Found	LCS % Recovery	LCS % RPD*	Flags	Units
METHOD DOHS/LUFT,LDL								
as Diesel	4	172	2	1.44	72.0	9.9		mg/Kg
Chlorobenzene	4	172	2.5	1.71	68.4			% Rec.
Di-n-octyl-phthalate	4	172	N/A	N/A	0			% Rec.
METHOD DOHS/LUFT,LDL								
as Diesel	4	172	2	1.59	79.5			mg/Kg
Chlorobenzene	4	172	2.5	1.86	74.4			% Rec.
Di-n-octyl-phthalate	4	172	N/A	N/A	0			% Rec.

LCS - Laboratory Control Standard

Advisory Control Limits - Inorganics - LCS recovery should be 80 - 120%.

*LCS/LCS DUPLICATE



ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE /
LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX		WATER MATRIX	
		%R (RANGE)*	MAX % RPD**	%R (RANGE)*	MAX % RPD**
17 CAM Metals					
Antimony	6010	60-140	25	60-140	25
Arsenic	7061	80-120	20	80-120	20
Barium	6010	80-120	20	80-120	20
Beryllium	6010	80-120	20	80-120	20
Cadmium	6010	80-120	20	80-120	20
Chromium	6010	80-120	20	80-120	20
Cobalt	6010	80-120	20	80-120	20
Copper	6010	80-120	20	80-120	20
Lead	6010	80-120	20	80-120	20
Mercury	7471/7470	80-120	20	80-120	20
Molybdenum	6010	80-120	20	80-120	20
Nickel	6010	80-120	20	80-120	20
Selenium	7741	80-120	20	80-120	20
Silver	6010	80-120	20	80-120	20
Thallium	6010	80-120	20	80-120	20
Vanadium	6010	80-120	20	80-120	20
Zinc	6010	80-120	20	80-120	20

Volatiles 601/602/624/8010/8020/8260

Dichloroethene	80-120	20	80-120	20
Trichloroethene	80-120	20	80-120	20
Benzene	80-120	20	80-120	20
Toluene	80-120	20	80-120	20
Chlorobenzene	80-120	20	80-120	20

Semi-Volatiles 625/8270 Base Neutral Acids

1,2,4-Trichlorobenzene	38-107	23	39- 98	28
Acenaphthene	31-187	19	46-118	31
2,4-Dinitrotoluene	28- 89	47	24- 96	38
Pyrene	35-142	36	26-127	31
N-Nitrosodi-N-Propylamine	41-126	38	41-116	38
1,4-Dichlorobenzene	28-104	27	36- 97	28
Pentachlorophenol	17-109	47	9- 103	50
Phenol	26-90	35	12- 89	42
2-Chlorophenol	25-102	50	27-123	40
4-Chloro-3-methylphenol	26-103	39	23- 97	42
4-Nitrophenol	11-114	50	10- 80	50

* Advisory Control Limits

** % RPD for LCS/LCS Duplicate



ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE/
LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX		WATER MATRIX	
		%R (RANGE)	MAX % RPD**	%R (RANGE)	MAX %RPD**
Fuel Hydrocarbon	8015 MOD.				
Gas		80-120*	20*	80-120*	20*
Diesel		80-120*	20*	80-120*	20*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	80-120*	20*	80-120*	20*

* Advisory Limits

** % RPD for LCS/LCS Duplicate



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DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

07/01/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

RECEIVED
JUL 13 1993

Client Ref: Burbank Airport
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks

Kimberly S. Banks
Project Manager

KB:rm
Attachments:
Analytical Reports
Chain of Custody Document

Client Net Acct No: 13200
NET Job No: 93.00687



BGPAA 0073



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport

Date Taken: 05/20/1993
Date Reported: 07/01/1993

NET Job No.: 93.00687

Sample ID : Stained Surface near DH-10

Lab No. : 54745

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS	UNITS	REPORTING LIMIT
17 CAM Metals, Total				
Antimony (ICP)	6010	ND	mg/Kg	10
Arsenic (GFAA)	7060	37	mg/Kg	0.5
Barium (ICP)	6010	110	mg/Kg	2.0
Beryllium (ICP)	6010	ND	mg/Kg	2.0
Cadmium (ICP)	6010	ND	mg/Kg	2.0
Chromium (ICP)	6010	42	mg/Kg	2.0
Cobalt (ICP)	6010	7.3	mg/Kg	5.0
Copper (ICP)	6010	61	mg/Kg	2.0
Lead (GFAA)	7421	300	mg/Kg	0.2
Mercury (CVAA)	7471	0.3	mg/Kg	0.1
Molybdenum (ICP)	6010	ND	mg/Kg	5.0
Nickel (ICP)	6010	21	mg/Kg	5.0
Selenium (GFAA)	7740	ND	mg/Kg	0.5
Silver (ICP)	6010	ND	mg/Kg	2.0
Thallium (ICP)	6010	ND	mg/Kg	20
Vanadium (ICP)	6010	24	mg/Kg	5.0
Zinc (ICP)	6010	180	mg/Kg	5.0

ND - Not Detected at the Reporting Limit
page: 2

BGPAA 0074

FILE NO	PROJECT NAME
92-41-9392	Burbank Airport

Wheatland

CHAIN OF CUSTODY RECORD

~~BCPA-A-0075~~

[illegible]

Relinquished By
(Signature)

Date _____

Time

Received By
(Signature)

Analyses :

Wendy Borst

5-20-93

1700

Carey A.

A

●

Q

□

E

F

**McClelland
consultants**



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 567-6477

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

07/28/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

RECEIVED
JUL 30 1993

Fugro-McClelland (West), Inc.

Client Ref: Burbank Airport
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed
and results are located on attached pages.

Should you have questions regarding procedures or results, please
feel welcome to contact our Client Services Representatives or the
Laboratory Director.

Kimberly S. Banks
Kimberly S. Banks
Project Manager

KB:rm
Attachments:
Analytical Reports
Chain of Custody Document

Client Net Acct No: 13200
NET Job No: 93.00817



BGPAA 0076



Client Name: Fugro-McClelland

Client Ref.: Burbank Airport

Date Taken: 05/20/1993

Date Reported: 07/28/1993

NET Job No.: 93.00817

Sample ID : Stained Surface near DH-10

Lab No. : 55376

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS	UNITS	REPORTING LIMIT
Extraction (WET)		DONE		
METALS Soluble/ STLC				
Lead (GFAA)	7421	16	mg/L	0.01

ND - Not Detected at the Reporting Limit
page: 2

BGPAA 0077

JOB NO 92-41-9312	PROJECT NAME Burbank Airport	LOCATION Wheatland
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Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested						Comments
						A	B	C	D	E	F	
✓ Stationed Surface near DH-10	5-20-93	1700	3" long 2 1/2" diam sleeve	Soil	Ice							Analyses to follow
✓ West side wall @	5-20-93	0900	↓	↓	↓							
✓ East Side wall @	"	0905	↓	↓	↓							
✓ Spoil Pile-North	"	0910	↓	↓	↓							
✓ Spoil Pile-South	"	0915	↓	↓	↓							

Relinquished By (Signature)	Date	Time	Received By (Signature)	Analyses :
Wendy Borst	5-20-93	1700	Carol A	A _____
				B _____
				C _____
				D _____
				E _____
				F _____

BCPAA-0078



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 567-6477

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

08/02/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

RECEIVED
AUG 05 1993

Fugro-McClelland (West), Inc.

Client Ref: Burbank Airport/92-41-3392
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks

Kimberly S. Banks
Project Manager

KB:rth
Attachments:
Analytical Reports
Chain of Custody Document

Client No: 13200
NET Job No: 93.00837



BGPAA 0080



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport/92-41-3392
NET Job No.: 93.00837

Sample Matrix:	SOIL	SOIL	SOIL
Sample Date:	05/20/1993	05/20/1993	05/20/1993
Sample ID :	DH-8 @ 0.5	DH-8 @ 3'	DH-9 @ .5'
Lab No. :	55472	55473	55474

ANALYTES/METHOD	METHOD	R.L.	UNITS	RESULTS
Extraction (WET)			DONE	DONE
METALS Soluble/ STLC				
Lead (FLAA)	239.1	0.05	mg/L 0.63	ND 0.98



Client Name: Fugro-McClelland
Client Ref.: Burbank Airport/92-41-3392
NET Job No.: 93.00837

Sample Matrix:	SOIL	SOIL	SOIL
Sample Date:	05/20/1993	05/20/1993	05/20/1993
Sample ID :	DH-9 @ 3'	DH-10 @ 3'	DH-10 @ 0.5'
Lab No. :	55475	55476	55480

ANALYTES/METHOD	METHOD	R.L.	UNITS	RESULTS
Extraction (WET)			DONE	DONE
METALS Soluble/ STLC				
Lead (FLAA)	239.1	0.05	mg/L 0.10	ND 0.34

JOB NO
92-41-3342

PROJECT NAME Burbank Airport

LOCATION
7540 Wheattland

[illegible]

Relinquished By
(Signature)

Wendy Borst

Date _____

520.93

Time

1700

Received By
(Signature)

Charles A.

Analyses :

A _____

B _____

C _____

D _____

E _____

F _____

РГРПА 0083

**McClelland
consultants**

CHAIN OF CUSTODY RECORD

92-41-3342 | Burbank Airport

LOCATION

7540 Wheatland

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested						Comments
						A	B	C	D	E	F	
DH-4 @ 10'	5/20/13	1205	2 1/2" diam 3' long aluminum	Soil	ice							Analyses will follow
DH-4 @ 15'		1225										
DH-5 @ 2 1/2'		1300										
DH-5 @ 5'		1310										
DH-5 @ 7 1/2'		1330										
DH-5 @ 12 1/2'		1340										
DH-6 @ 10'		1350										
DH-6 @ 15'		1400										not sampled
DH-7 @ 10'		1415										
DH-7 @ 15'		1435										
DH-8 @ 1/2'		1500										
DH-8 @ 3'		1510										
DH-Y ms/msd												All test
DH-X msd ms												4/19/11

Relinquished By
(Signature)

Wendy Borst

Date

5-20-13

Time

1700

Received By
(Signature)

Claus A

Analyses:

A

B

C

D

E

F

CHAIN OF CUSTODY RECORD

McClelland
consultants

APPENDIX C
WASTE MANIFESTS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Burbank Glendale Pasadena Airport Authority 2627 Hollywood Way, Burbank, Ca. 91505		C1A109181061915161471417171510		1 of 1	
4. Generator's Phone (818) 840-9456		6. US EPA ID Number			
5. Transporter 1 Company Name OST		C1A101012171610314146			
7. Transporter 2 Company Name		8. US EPA ID Number			
9. Designated Facility Name and Site Address Gibson Environmental End of Commercial way Bakersfield, Ca 93308		10. US EPA ID Number C1A10918108181311712			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total	14. Unit
a. RQ Hazardous waste Solid NOS ORM-R NA 9189		No.	Type	Quantity	Wt/Vol
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information Wear appropriate personal protective equipment. In case of emergency call 818 840-9456					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Wendy Borst for Dan Feger, Airport Authority		Signature Wendy Borst		Month 08	Day 11
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature John O'Kelley		Year 1993	
Printed/Typed Name JOHN O'KELLEY		Signature		Month 08	Day 11
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Year 1993	
Printed/Typed Name		Signature		Month	Day
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month	Day
				Year	

DO NOT WRITE BELOW THIS LINE.

Blue: GENERATOR SENDS THIS COPY TO DTSC WITHIN 30 DAYS.